

Receipt date: 04/30/2010

Doc code: IDS

Doc description: Information Disclosure Statement (IDS) Filed

10567177 - GAI: 1793

Pat. Sec. 001-10

Approved for use through 07/31/2012. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10567177
	Filing Date		2006-02-03
	First Named Inventor	Erlind Thorsteinson	
	Art Unit	1793	
	Examiner Name	Joseph Micali	
	Attorney Docket Number	62575A	

U.S.PATENTS						Remove
Examiner Initial*	Cite No	Patent Number	Kind Code ¹	Issue Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1	4211570		1980-07-08	Desplanches, et al.	
	2	3898094		1975-08-05	Holloway, et al.	
	3	5566755		1996-10-22	Seidle, et al.	
	4	5288371		1994-02-22	Rolison, et al.	
	5	4642360		1987-02-10	Nojiri, et al.	
	6	3972829		1976-08-03	Michalko	
	7	4701437		1987-10-20	Boxhoorn, et al.	
	8	4806518		1998-02-21	Boxhoorn, et al.	

Receipt date: 04/30/2010 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10567177	10567177 - GAU: 1793
	Filing Date		2006-02-03	
	First Named Inventor	Erlind Thorsteinson		
	Art Unit	1793		
	Examiner Name	Joseph Micali		
	Attorney Docket Number	62575A		

	9	4728634		1988-03-01	Boxhoorn, et al.	
--	---	---------	--	------------	------------------	--

If you wish to add additional U.S. Patent citation information please click the Add button.

Add

U.S.PATENT APPLICATION PUBLICATIONS

Remove

Examiner Initial*	Cite No	Publication Number	Kind Code ¹	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear
	1					

If you wish to add additional U.S. Published Application citation information please click the Add button.

Add

FOREIGN PATENT DOCUMENTS

Remove

Examiner Initial*	Cite No	Foreign Document Number ³	Country Code ² i	Kind Code ⁴	Publication Date	Name of Patentee or Applicant of cited Document	Pages,Columns,Lines where Relevant Passages or Relevant Figures Appear	T ⁵
	1	9935104	WO		1999-07-15	Virkar, et al.		<input type="checkbox"/>
	2	9110422	JP		1997-04-28	Takahashi, et al.		<input type="checkbox"/>
	3	9110421	JP		1997-04-28	Takahashi, et al.		<input type="checkbox"/>
	4	1501163	GB		1978-03-17	Broussaud, et al.		<input type="checkbox"/>
	5	172565	EP		1986-02-26	Nojiri, et al.		<input type="checkbox"/>

Receipt date: 04/30/2010 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10567177	10567177 - GAU: 1793
	Filing Date		2006-02-03	
	First Named Inventor	Erlind Thorsteinson		
	Art Unit	1793		
	Examiner Name	Joseph Micali		
	Attorney Docket Number	62575A		

6	1600747	GB		1981-10-21	Hayden, et al.		<input type="checkbox"/>
7	2917590	DE		1980-11-06	Hartl		<input type="checkbox"/>

If you wish to add additional Foreign Patent Document citation information please click the Add button

NON-PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc), date, pages(s), volume-issue number(s), publisher, city and/or country where published.	T ⁵
	1	ZHAOYIN WEN, ET AL., "Preparation and electrical property of Na.beta./beta"-Al2O3 film", Wuji Cailiao Xuebao (1997), 12(6), 825-829	<input type="checkbox"/>
	2	ZHAOYIN WEN, ET AL., "Influences of spinel on phase composition and ionic conduction property of Na-.beta./beta"-Al2O3 film", Yingyong Huaxue (1998), 15 (1), 65-67	<input type="checkbox"/>
	3	SCHAF, ET AL., "In-situ formation of thin-film like .beta."-alumina layers on .alpha.-alumina substrates", Ionics (1997), 3 (3 & 4), 277-281	<input type="checkbox"/>
	4	YUSHAN YAN, ET AL., "Preparation of Zeolite ZSM-5 Membranes by In-Situ Crystallization on Porous .alpha.-Al2O3", Ind. Eng. Chem. Res. (1995), 34 (5), 1652-61	<input type="checkbox"/>
	5	J. S. SUBRAMANIAN, ET AL., "Preparation and properties of two-phase mixed conductors of .beta.-alumina and iron oxide", J. Electrochem. Soc. (1992), 139 (9), 2562 - 6	<input type="checkbox"/>
	6	G. A. EL-SHOBAKY, ET AL., "Effects of lithium oxide doping on solid-solid interactions in the cupric oxide-alumina system", Thermochim. Acta (1989), 150 (1), 111-20	<input type="checkbox"/>
	7	N. S. YURITSIN, ET AL., "Synthesis of lanthanum aluminate (LaAlO3) with sodium oxide additives", Izv. Akad. Nauk SSSR, Neorg. Mater. (1987), 23 (11), 1871-4	<input type="checkbox"/>

Receipt date: 04/30/2010 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10567177	10567177 - GAU: 1793
	Filing Date		2006-02-03	
	First Named Inventor	Erlind Thorsteinson		
	Art Unit	1793		
	Examiner Name	Joseph Micali		
	Attorney Docket Number	62575A		

8	A. K. KURIAKOSE, ET AL., "Polycrystalline sodium-postassium .beta./.beta."-alumina", J. Solid State Chem. (1987), 69 (2), 312-19	<input type="checkbox"/>
9	G. R. GAVALAS, ET AL., "Alkali-alumina sorbents for high-temperature removal of SO2", AIChE J. (1987), 33 (2), 258-66	<input type="checkbox"/>
10	A. YA. NEIMAN, ET AL., "Mechanism of the preparation of sodium .beta.-aluminates", Zh. Neorg. Khim (1986), 31 (4), 863-8	<input type="checkbox"/>
11	L. B. GARRIDO, ET AL., "Kinetic study of the sodium oxide-alumina system: formation of .alpha.-alumina and .beta.-alumina from .gamma.-alunina superficially impregnated with sodium", Rev. Latinoam. Ing. Quim. Quim. Apl. (1984), 14 (1), 67-87	<input type="checkbox"/>
12	MARTIN G. BARKER, ET AL., "A new sodium aluminate Na17Al5O16", J. Chem. Soc., Chem. Commun. (1982), (9), 516-17	<input type="checkbox"/>
13	MARTEN G. BARKER, ET AL., "Preparation and crystal structures of the first alkali rich sodium aluminates Na7Al3O8 and Na5AlO4", J. Chem. Soc., Chem. Commun. (1981), (8), 379-81	<input type="checkbox"/>
14	CHANG, BYONG-TAE, ET AL., "Effects of sodium tetraborate as an additive on the reaction of .alpha.-alumina with sodium carbonate", Bull. Chem. Soc. Jpn. (1980), 53 (6), 1600-4	<input type="checkbox"/>
15	E. G. SEMIN, ET AL., "Mechanism of formation of chrysoberyl in the presence of heterophasic additives", Zh. Prikl. Khim. (Leningrad) (1979), 52 (7), 1465-8	<input type="checkbox"/>
16	V. I. KOVALENKO, ET AL., "Study of the reaction of sodium carbonate with different forms of aluminum oxide", Zh. Neorg. Khim. (1978), 23 (2), 281-5	<input type="checkbox"/>
17	ALBERT K. FISCHER, "Atmospheric pressure synthesis for .beta.-lithium aluminum oxide", Inorg. Chem. (1977), 16 (4), 974	<input type="checkbox"/>
18	KLARA EROSS-KISS, ET AL., "Infrared spectroscopy study of products resulting from high-temperature solid-phase reactions of potassium carbonate and various oxides", Period. Polytech., Chem. Eng. (1976), 20 (1), 13-23	<input type="checkbox"/>

Receipt date: 04/30/2010 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10567177	10567177 - GAU: 1793
	Filing Date		2006-02-03	
	First Named Inventor	Erlind Thorsteinson		
	Art Unit	1793		
	Examiner Name	Joseph Micali		
	Attorney Docket Number	62575A		

19	J. MACAK, ET AL., "Effect of admixtures on the formation of nickel(II) dialuminum oxide in a solid-state reaction", Collect. Czech. Chem. Commun. (1976), 41 (3), 687-94	<input type="checkbox"/>
20	SANDOR GAL, ET AL., "Reactions of potassium carbonate with various oxides at high temperatures", Proc. Anal. Chem. Conf., 3rd (1970), Volume 2, 243-8	<input type="checkbox"/>
21	ALFRED PACKTER, ET AL., "Kinetics and mechanism of the heterogeneous reactions of .gamma.-.kappa.-, and .alpha.-aluminas with aqueous sodium hydroxide solutions", J. Chem. Soc. A (1970), (8), 1266-70	<input type="checkbox"/>
22	CONSTANTINOS G. VAYENAS, ET AL., "Electrochemical promotion of heterogeneous catalysis", Catal. Today (1999), 51 (3-4), 581-594	<input type="checkbox"/>
23	M. MAKRI, ET AL., "The role of the solid electrolyte support on the NEMCA behavior of ethylene oxidation on Pt", Inst. Chem. Eng. Symp. Ser. (1999), 145 (Electrochemical Engineering), 269-280	<input type="checkbox"/>
24	C. G. VAYENAS, ET AL., "Non-faradaic electrochemical modification of catalytic activity using ionic and mixed conducting ceramics", Proc.-Electrochem. Soc. (1998), 97-24 (Ionic and Mixed Conducting Ceramics), 509-529	<input type="checkbox"/>
25	C. G. VAYENAS, ET AL., "Direct STM, XPS and TPD observation of spillover phenomena over mm distances on metal catalyst films interfaced with solid electrolytes", Stud. Surf. Sci. Catal. (1997), 112 (Spillover and Migration of Surface Species on Catalysts), 39-47	<input type="checkbox"/>
26	IAN R. HARKNESS, ET AL., "Ethylene oxidation over platinum: in situ electrochemically controlled promotion using Na-.beta." alumina and studies with a Pt(111)/Na model catalyst", J. Catal. (1996), 160 (1), 19-26	<input type="checkbox"/>
27	R. M. LAMBERT, ET AL., "Electrochemical promotion of alkene oxidation by nitric oxide over platinum .beta." alumina.", Book of Abstracts, 211th ACS National Meeting, New Orleans, LA, March 24-28 (1996), COLL-015 Publisher: American Chemical Society, Washington, D.C.	<input type="checkbox"/>
28	A. C. KALOYANNIS, ET AL., "Electrochemical promotion of catalyst surfaces deposited on ionic and mixed conductors", Ionics (1995), 1 (5 & 6), 414-420	<input type="checkbox"/>
29	IAN R. HARKNESS, ET AL., "Electrochemical promotion of the NO + ethylene reaction over platinum", J. Catal. (1995), 152 (1), 211-14	<input type="checkbox"/>

Receipt date: 04/30/2010 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10567177	10567177 - GAU: 1793
	Filing Date		2006-02-03	
	First Named Inventor	Erlind Thorsteinson		
	Art Unit	1793		
	Examiner Name	Joseph Micali		
	Attorney Docket Number	62575A		

30	CH. KARAVASILIS, ET AL., "Selectivity maximization of ethylene epoxidation via NEMCA with zirconia and .beta."-Al ₂ O ₃ solid electrolytes, Ionics (1995), 1 (1), 85-91	<input type="checkbox"/>
31	C. G. VAYENAS, ET AL., "Non-faradaic electrochemical modification of catalytic activity: solid electrolytes as active catalyst supports", Solid State Ionics (1994), 72 (pt2), 321-7	<input type="checkbox"/>
32	C. G. VAYENAS, ET AL., "Ion spillover as the origin of the NEMCA effect", Stud. Surf. Sci. Catal. (1993), 77 (New Aspects of Spillover Effect in Catalysis), 111-16	<input type="checkbox"/>
33	C. G. VAYENAS, "Electrochemical activation of catalyzed reactions", NATO ASI Ser., Ser. C (1993), 398 (Elementary Reaction Steps in Heterogeneous Catalysis), 73-92	<input type="checkbox"/>
34	COSTAS G. VAYENAS, ET AL., "Non-faradaic electrochemical modification of catalytic activity: the work function of metal electrodes in solid electrolyte cells", Solid State Ionics (1992), 53-56 (pt. 1), 97-110	<input type="checkbox"/>
35	C. G. VAYENAS, ET AL., "Non-Faradaic electrochemical modification of catalytic activity. 4. Use of .beta."-alumina as the solid electrolyte", J. Catal. (1991), 128 (2), 415-35	<input type="checkbox"/>
36	C. G. VAYENAS, ET AL., "Dependence of catalytic rates on catalyst work function", Nature (London) (1990), 343 (6259), 625-7	<input type="checkbox"/>
37	C. G. VAYENAS, ET AL., "Non-faradaic electrochemical modification of catalytic activity. Reversible promotion of platinum metals catalysts", Platinum Met. Rev. (1990), 34 (3), 122-30	<input type="checkbox"/>
38	CH. KARAVASILIS, ET AL., "In Situ Controlled Promotion of Catalyst Surfaces via NEMCA: The Effect of Na on the Ag-Catalyzed Ethylene Epoxidation in the Presence of Chlorine Moderators", J. Catal. (1996), 160 (2), 205-213	<input type="checkbox"/>

If you wish to add additional non-patent literature document citation information please click the Add button

EXAMINER SIGNATURE

Examiner Signature	/Joseph Micali/	/J.M./	Date Considered	05/11/2010
--------------------	-----------------	--------	-----------------	------------

*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through a citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Receipt date: 04/30/2010 INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Not for submission under 37 CFR 1.99)	Application Number		10567177	10567177 - GAU: 1793
	Filing Date		2006-02-03	
	First Named Inventor	Erlind Thorsteinson		
	Art Unit	1793		
	Examiner Name	Joseph Micali		
	Attorney Docket Number	62575A		

¹ See Kind Codes of USPTO Patent Documents at www.USPTO.GOV or MPEP 901.04. ² Enter office that issued the document, by the two-letter code (WIPO Standard ST.3). ³ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁴ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. ⁵ Applicant is to place a check mark here if English language translation is attached.